

**METHODS FOR ENHANCING GRAFT SURVIVAL BY MODULATING
HEME OXYGENASE ACTIVITY**

ABSTRACT OF THE DISCLOSURE

5 Methods are provided wherein the survival of an organ transplant is enhanced
by introducing into cells of the transplant a nucleic acid molecule that modulates heme
oxygenase-I activity therein. Nucleic acid molecules that modulate heme oxygenase-I
activity and therefore find use in the described methods include, for example,
molecules that encode a polypeptide that itself exhibits heme oxygenase-I activity or
antisense oligonucleotides that act to inhibit heme oxygenase-I activity in a cell.